

Features of HSBR

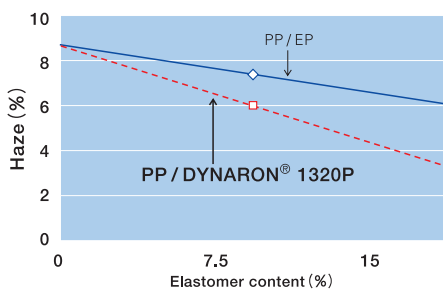
1. PP/DYNARON® 1320P film property

Properties	Unit	Reference method	PP	PP / DYNARON® 1320P	PP/EP
				85 / 15	85 / 15
Strength at Yield	MD	MPa	25.5 23.5	17.7	21.6
	TD			14.7	17.7
Tensile strength	MD	MPa	62.8 46.1	56.9	56.9
	TD			45.1	31.4
Elongation at break	MD	%	660 810	620	670
	TD			850	710
Modulus	MD	MPa	560 540	280	440
	TD			270	390
Elmendorf tearing load	MD TD	N	JSR method	0.5 2.0	1.3 6.2
Film impact strength	0°C 20°C	kJ/m kJ/m	JSR method	5.3 0.9	34.3 10.8
Heat Seal strength	120°C 130°C	N/15mm N/15mm	JSR method	0.1 1.6	0.3 2.7
Haze		%	JIS K7105	8.7	3.1

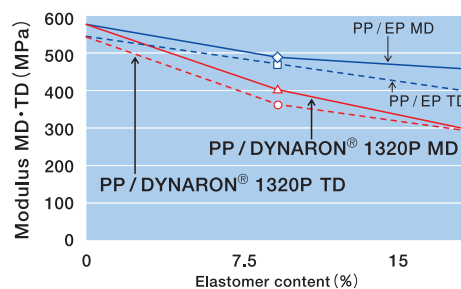
ⓄMD: Machine direction
 ⓄTD: Transverse direction
 ⓄPP: Random type polypropylene
 ⓄEP: Ethylene content

ⓄCondition of molding: single layer T-die film
 ⓄMachine: single screw extruder
 ⓄCylinder temperature: 180-210°C
 ⓄTemperature: 200-220°C
 ⓄFilm thickness: 50μm

PP/DYNARON® 1320P film property
 《Haze》

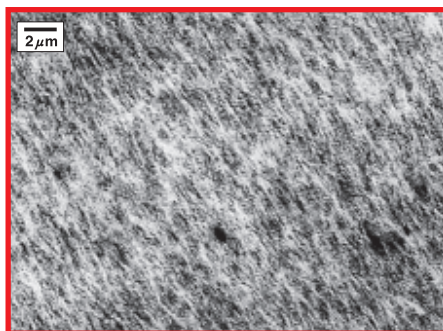


PP/DYNARON® 1320P film property
 《Modulus》

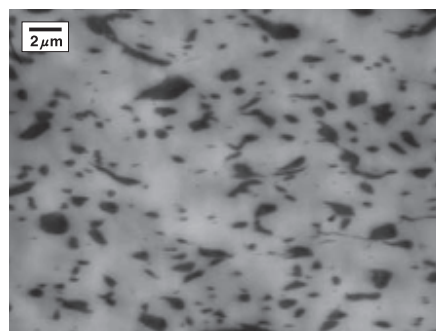


HSBR type provides polypropylene(PP) compounds with better transparency and softness without addition of oil maintaining heat resistance of polypropylene(PP).

2. PP / DYNARON® 1320P: Electron micrograph



PP / DYNARON® 1320P
 =70/30



PP / EP
 =70/30

HSBR type is finely dispersed in polypropylene(PP).